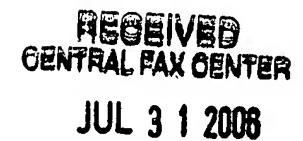
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Appln. No. 10/708,558 Docket No. 144441/GEM-0101



AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (original) A magnet vent assembly for venting a cryogenic gas from a superconducting magnet of an MRI system, the assembly comprising:

a first burst disc, the first burst disc comprising a first inlet and a first outlet;

a second burst disc, the second burst disc comprising a second inlet coupled to the first inlet and a second outlet coupled to the first outlet; and

wherein the magnet vent assembly is configured to switchably direct a flow path of cryogenic gas through either of the following: the first burst disc and the second burst disc.

2. (original) The magnet vent assembly of claim 1, further comprising:

a magnet exhaust;

an exhaust vent;

a first valve in operable communication with the magnet exhaust, the first burst disc, and the second burst disc;

a second valve in operable communication with the exhaust vent, the first burst disc, and the second burst disc; and

wherein the first valve is configured to switchably direct a flow path of cryogenic gas from the magnet exhaust through either of the following: the first burst disc and the

second burst disc; and wherein the second valve is configured to switchably direct a flow path of cryogenic gas to the exhaust vent from either of the following: the first burst disc and the second burst disc.

- 3. (original) The magnet vent assembly of claim 2, wherein the first valve and second valve are linked to prevent the blockage of a flow path of the cryogenic gas to the exhaust vent.
- 4. (original) The magnet vent assembly of claim 2, wherein the first valve and second valve are interlocked to prevent the blockage of a flow path of the cryogenic gas to the exhaust vent.
- 5. (original) The magnet vent assembly of claim 2, wherein the valves are 3-port valves.
- 6. (original) The magnet vent assembly of claim 2, wherein the valves are ball valves.
- 7. (original) The magnet vent assembly of claim 2, wherein the valves are vane valves
- 8. (original) The magnet vent assembly of claim 2, wherein the valves are able to withstand pressure of greater than about 2 atmospheres.
- 9. (original) The magnet vent assembly of claim 2, wherein the valves are able to withstand pressure of greater than about 1 atmospheres.
 - 10. (original) The magnet vent assembly of claim 1, further comprising: a magnet exhaust;

an exhaust vent;

a first valve in operable communication with the magnet exhaust and the first inlet;

a second valve in operable communication with the exhaust vent and first outlet;

a third valve in operable communication with the magnet exhaust and the second inlet;

a fourth valve in operable communication with the exhaust vent and second outlet; and

wherein the first, second, third and fourth valves are configured to switchably direct a flow path of cryogenic gas from the magnet exhaust through either of the following: the first burst disc and the second burst disc.

- 11. (original) The magnet vent assembly of claim 10, wherein the first, second, third and fourth valves are linked to prevent the blockage of a flow path of the cryogenic gas to the exhaust vent.
- 12. (original) The magnet vent assembly of claim 10, wherein the first, second, third and fourth valves are interlocked to prevent the blockage of a flow path of the cryogenic gas to the exhaust vent.
- 13. (original) The magnet vent assembly of claim 10, wherein the valves are gate valves.
- 14. (original) The magnet vent assembly of claim 10, wherein the valves are able to withstand pressure of greater than about 2 atmospheres.
- 15. (original) The magnet vent assembly of claim 10, wherein the valves are able to withstand pressure of greater than about 1 atmospheres.

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16. (original) A magnet vent assembly for venting a cryogenic gas from a superconducting magnet of an MRI system, the assembly comprising:

a first burst disc, the first burst disc comprising a first inlet and a first outlet;

the first inlet comprising an inlet valve;

the first outlet comprising an outlet valve;

an inlet flange in operable communication with the first inlet;

an outlet flange in operable communication with the first outlet; and

wherein the magnet vent assembly is configured for a removable attachment by a service tool, the service tool comprising a second burst disc, and the inlet valve and outlet valve are configured to switchably direct a flow path of cryogenic gas through either of the following: the first burst disc and the second burst disc.

- 17. (original) The magnet vent assembly of claim 16, wherein the valves are 3-port valves.
- 18. (original) The magnet vent assembly of claim 16, wherein the valves are ball valves.
- 19. (original) The magnet vent assembly of claim 16, wherein the valves are vane valves
- 20. (original) The magnet vent assembly of claim 16, wherein the valves are able to withstand pressure of greater than about 2 atmospheres.
- 21. (original) The magnet vent assembly of claim 16, wherein the valves are able to withstand pressure of greater than about 1 atmospheres.

(original) The magnet vent assembly of claim 16, wherein the inlet and 22. outlet valves are linked to prevent the blockage of a flow path of the cryogenic gas to the exhaust vent.

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- (original) The magnet vent assembly of claim 16, wherein the inlet and 23. outlet valves are interlocked to prevent the blockage of a flow path of the cryogenic gas to the exhaust vent.
- (original) A service tool for a magnet vent assembly for venting a 24. cryogenic gas from a superconducting magnet of an MRI system, the magnet vent assembly comprising a first burst disc, the service tool comprising:

an inlet end, configured to be removeably attachable to an inlet flange of a magnet vent assembly;

an outlet end, configured to be removeably attachable to an outlet flange of a magnet vent assembly;

a second burst disc in operable communication with the inlet end and outlet end; and

wherein the service tool is configured to switchable direct a flow path of cryogenic gas through either of the following: the first burst disc and the second burst disc.

(currently amended) An MRI system comprising: 25.

a cryostat;

a superconducting magnet located in the cryostat;

a first burst disc, the first burst disc comprising a first inlet and a first outlet, and the first inlet is in fluid communication with the cryostat;

a second burst disc, the second burst disc comprising a second inlet coupled to the first inlet and a second outlet coupled to the first outlet, and the second inlet is in fluid communication with the cryostat;

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a vent in fluid communication with the first outlet and the second outlet; [[and]]

wherein the MRI system is configured means to switchably direct a flow path of cryogenic gas through either of the following: the first burst disc and the second burst disc; and

means to prevent blockage of the directed flow path to the vent in fluid communication with the coupled first and second outlets.